

Application No.: 09/916611

Docket No.: 00306-00142-USU

**AMENDMENTS TO THE CLAIMS**

1. (currently amended) A herbicide composition consisting essentially of components:
- (a) at least one chlorinated carboxylic acid herbicide in the acid form,
  - (b) at least one surfactant in an effective amount such that said chlorinated carboxylic acid herbicide is fully dissolved in the surfactant and optionally
  - (c) an ester of (2,4-dichlorophenoxy)acetic acid,
- and said at least one surfactant component (b) is present in a quantity equal to or greater than said at least one chlorinated carboxylic acid herbicide component (a) and
- ~~wherein said chlorinated carboxylic acid herbicide is a synthetic auxin or a quinoline~~  
carboxylic acid.
2. (canceled)
3. (previously presented) The herbicide composition as claimed in claim 1, wherein at most 25% by weight of an ester of (2,4-dichlorophenoxy)acetic acid is present.
4. (previously presented) The herbicide composition as claimed in claim 1, wherein at most about 15% by weight of an ester of (2,4-dichlorophenoxy)acetic acid is present.
5. (previously presented) The herbicide composition as claimed in claim 1, wherein at most about 10% by weight of an ester of (2,4-dichlorophenoxy)acetic acid is present.

Application No.: 09/916611

Docket No.: 00306-00142-USU

6. (previously presented) The herbicide composition as claimed in claim 1, wherein at most about 5% by weight of an ester of (2,4-dichlorophenoxy)acetic acid is present.
7. (previously presented) The herbicide composition as claimed in claim 1, wherein at most about 2% by weight of an ester of (2,4-dichlorophenoxy)acetic acid is present.
8. (original) The herbicide composition as claimed in claim 1, wherein said surfactant is present in an amount of at least about 10% by weight.
9. (previously presented) The herbicide composition as claimed in claim 1, wherein said surfactant is present in an amount of at least about 20% by weight.
10. (original) The herbicide composition as claimed in claim 3, wherein said surfactant is present in an amount of at least about 30% by weight.
11. (original) The herbicide composition as claimed in claim 4, wherein said surfactant is present in an amount of at least about 40% by weight.
12. (original) The herbicide composition as claimed in claim 1, wherein said surfactant is present in an amount of at least about 50% by weight.
13. (original) The herbicide composition as claimed in claim 3, wherein said surfactant is present in an amount of at least 50% by weight.

408430

Application No.: 09/916611

Docket No.: 00306-00142-USU

14. (original) The herbicide composition as claimed in claim 4, wherein said surfactant is present in an amount of at least 50% by weight.
15. (original) The herbicide composition as claimed in claim 5, wherein said surfactant is present in an amount of at least 50% by weight.
16. (original) The herbicide composition as claimed in claim 6, wherein said surfactant is present in an amount of at least 50% by weight.
17. (original) The herbicide composition as claimed in claim 7, wherein said surfactant is present in an amount of at least 50% by weight.
18. (original) The herbicide composition as claimed in claim 1, wherein said surfactant is present in an amount from about 50 to about 90% by weight.
19. (original) The herbicide composition as claimed in claim 2, wherein said surfactant is present in an amount from about 50 to about 90% by weight.
20. (original) The herbicide composition as claimed in claim 3, wherein said surfactant is present in an amount from about 50 to about 90% by weight.
21. (original) The herbicide composition as claimed in claim 6, wherein said surfactant is present in an amount from about 50 to about 90% by weight.

Application No.: 09/916611

Docket No.: 00306-00142-USU

22. (original) The herbicide composition as claimed in claim 1, wherein said surfactant is present in an amount from about 70 to about 80% by weight.

23. (original) The herbicide composition as claimed in claim 3, wherein said surfactant is present in an amount from about 70 to about 80% by weight.

24. (original) The herbicide composition as claimed in claim 4, wherein said surfactant is present in an amount from about 70 to about 80% by weight.

25. (original) The herbicide composition as claimed in claim 5, wherein said surfactant is present in an amount from about 70 to about 80% by weight.

26. (original) The herbicide composition as claimed in claim 6, wherein said surfactant is present in an amount from about 70 to about 80% by weight.

27. (original) The herbicide composition as claimed in claim 7, wherein said surfactant is present in an amount from about 70 to about 80% by weight.

28. (original) The herbicide composition as claimed in claim 1, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 1 to about 50% by weight.

29. (canceled)

Application No.: 09/916611

Docket No.: 00306-00142-USU

30. (original) The herbicide composition as claimed in claim 3, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 1 to about 50% by weight.
31. (original) The herbicide composition as claimed in claim 5, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 1 to about 50% by weight.
32. (original) The herbicide composition as claimed in claim 7, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 1 to about 50% by weight.
33. (original) The herbicide composition as claimed in claim 18, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 1 to about 50% by weight.
34. (original) The herbicide composition as claimed in claim 21, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 1 to about 50% by weight.
35. (original) The herbicide composition as claimed in claim 22, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 1 to about 50% by weight.
36. (original) The herbicide composition as claimed in claim 26, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 1 to about 50% by weight.
37. (original) The herbicide composition as claimed in claim 1, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 5 to about 30% by weight.

408430

Application No.: 09/916611

Docket No.: 00306-00142-USU

38. (previously presented) The herbicide composition as claimed in claim 4, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 5 to about 30% by weight.
39. (previously presented) The herbicide composition as claimed in claim 7, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 5 to about 30% by weight.
40. (canceled)
41. (original) The herbicide composition as claimed in claim 3, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 5 to about 30% by weight.
42. (original) The herbicide composition as claimed in claim 5, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 5 to about 30% by weight.
43. (original) The herbicide composition as claimed in claim 17, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 5 to about 30% by weight.
44. (previously presented) The herbicide composition as claimed in claim 18, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 5 to about 30% by weight.

408430

Application No.: 09/916611

Docket No.: 00306-00142-USU

45. (original) The herbicide composition as claimed in claim 21, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 5 to about 30% by weight.
46. (original) The herbicide composition as claimed in claim 22, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 5 to about 30% by weight.
47. (original) The herbicide composition as claimed in claim 26, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 5 to about 30% by weight.
48. (original) The herbicide composition as claimed in claim 1, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 10 to about 20% by weight.
49. (canceled)
50. (original) The herbicide composition as claimed in claim 3, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 10 to about 20% by weight.
51. (original) The herbicide composition as claimed in claim 5, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 10 to about 20% by weight.
52. (original) The herbicide composition as claimed in claim 7, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 10 to about 20% by weight.

Application No.: 09/916611

Docket No.: 00306-00142-USU

53. (previously presented) The herbicide composition as claimed in claim 18, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 10 to about 20% by weight.
54. (original) The herbicide composition as claimed in claim 21, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 10 to about 20% by weight.
55. (original) The herbicide composition as claimed in claim 22, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 10 to about 20% by weight.
56. (original) The herbicide composition as claimed in claim 27, wherein said chlorinated carboxylic acid herbicide is present in an amount from about 10 to about 20% by weight.
57. (previously presented) The herbicide composition as claimed in claim 1, wherein an aromatic solvent is present in an amount of at most 50% by weight.
58. (previously presented) The herbicide composition as claimed in claim 1, wherein an aromatic solvent is present in an amount of at most 40% by weight.
59. (previously presented) The herbicide composition as claimed in claim 1, wherein an aromatic solvent is present in an amount of at most 30% by weight.



Application No.: 09/916611

Docket No.: 00306-00142-USU

60. (previously presented) The herbicide composition as claimed in claim 1, wherein an aromatic solvent is present in an amount of at most 20% by weight.
61. (previously presented) The herbicide composition as claimed in claim 1, wherein an aromatic solvent is present in an amount of at most 15% by weight.
62. (previously presented) The herbicide composition as claimed in claim 1, wherein an aromatic solvent is present in an amount of at most 10% by weight.
63. (previously presented) The herbicide composition as claimed in claim 1, wherein an aromatic solvent is present in an amount of at most 5% by weight.
64. (previously presented) The herbicide composition as claimed in claim 1, wherein the composition has at most about 10% by weight of an ester of (2,4-dichlorophenoxy)acetic acid and said chlorinated carboxylic acid herbicide is present in an amount from about 10 to about 20% by weight, and said surfactant is present in an amount from about 70 to about 80% by weight.
65. (previously presented) The herbicide composition as claimed in claim 64, wherein a solvent is present.
66. (cancelled)

Application No.: 09/916611

Docket No.: 00306-00142-USU

67. (cancelled)

68. (currently amended) The herbicide composition as claimed in claim 1, wherein said chlorinated carboxylic acid herbicide is a benzoic acid, phenoxy-carboxylic acid or pyridine carboxylic acid.

69. (currently amended) The herbicide composition as claimed in claim 1, wherein said chlorinated carboxylic acid herbicide is

Chloramben, dicamba, 2,4,5-trichlorophenoxy acetic acid, 2,4-dichlorophenoxy acetic acid, 2,4-dichlorophenoxy butyric acid, clomeprop, dichlorprop, dichlorprop-P, monochlorophenoxy acetic acid, monochlorophenoxy butyric acid, mecoprop, mecoprop-P, clopyralid, fluroxypyr, picloram, triclopyr, quinclorac or quinmerac.

70. (cancelled)

71. (currently amended) The herbicide composition as claimed in claim 3, wherein said chlorinated carboxylic acid herbicide is a benzoic acid, phenoxy-carboxylic acid or pyridine carboxylic acid.

72. (currently amended) The herbicide composition as claimed in claim 3, wherein said chlorinated carboxylic acid herbicide is

Chloramben, dicamba, 2,4,5-trichlorophenoxy acetic acid, 2,4-dichlorophenoxy acetic acid, 2,4-dichlorophenoxy butyric acid, clomeprop, dichlorprop,

408430

Application No.: 09/916611

Docket No.: 00306-00142-USU

dichlorprop-P, monochlorophenoxy acetic acid, monochlorophenoxy butyric acid, mecoprop, mecoprop-P, clopyralid, fluroxypyr, picloram, triclopyr, quinclorac or quinmerac.

73-81. (cancelled)

82. (currently amended) The herbicide composition as claimed in claim 1, wherein at least one additional component is present and is selected from the group consisting of
- Methylated fatty acids,
  - Ethylated fatty acids,
  - Butylated fatty acids,
  - Alkylated soybean oil,
  - Alkylated canola oil,
  - Alkylated coconut oil,
  - Alkylated sunflower oil,
  - Mineral oils,
  - Vegetable oils,
  - Fatty acids,
  - Polybutenes and
  - Epoxified seed oils.

83. (currently amended) The herbicide composition as claimed in claim 1, wherein at least one additional component is present and is selected from the group consisting of
- Methylated C6-C19 fatty acids,

408430

Application No.: 09/916611

Docket No.: 00306-00142-USU

Methylated Tall oil fatty acids,  
Methylated Oleic acid,  
Methylated Linoleic acid,  
Methylated Linolenic acid,  
Methylated Stearic acid,  
Methylated Palmitic acid,  
Ethylated C6-C19 fatty acids,  
Ethylated Tall oil fatty acids,  
Ethylated Oleic acid,  
Ethylated Linoleic acid,  
Ethylated Linolenic acid,  
Ethylated Stearic acid,  
Ethylated Palmitic acid,  
Butylated C6-C19 fatty acids,  
Butylated Tall oil fatty acids,  
Butylated Oleic acid,  
Butylated Linoleic acid  
Butylated Linolenic acid,  
Butylated Stearic acid,  
Butylated Palmitic acid,  
Methylated soybean oil,  
Ethylated soybean oil,  
Butylated soybean oil,  
Methylated canola oil,

408430

Application No.: 09/916611

Docket No.: 00306-00142-USU

Ethylated canola oil,  
Butylated canola oil,  
Methylated coconut oil,  
Ethylated coconut oil,  
Butylated coconut oil,  
Methylated sunflower oil,  
Ethylated sunflower oil,  
Butylated sunflower oil,  
Paraffinic mineral oils,  
Naphthenic mineral oils,  
Aromatic mineral oils,  
Soybean oil,  
Canola oil,  
Cottonseed oil,  
C6-C19 fatty acids,  
Tall oil fatty acids,  
Oleic acid,  
Linoleic acid,  
Linolenic acid,  
Stearic acid,  
Palmitic acid and  
Epoxified soybean oil.

Application No.: 09/916611

Docket No.: 00306-00142-USU

84. (currently amended) The herbicide composition as claimed in claim 3, wherein at least one additional component is present and is selected from the group consisting of
- Methylated fatty acids,
  - Ethylated fatty acids,
  - Butylated fatty acids,
  - Alkylated soybean oil,
  - Alkylated canola oil,
  - Alkylated coconut oil,
  - Alkylated sunflower oil,
  - Mineral oils,
  - Vegetable oils,
  - Fatty acids,
  - Polybutenes and
  - Epoxified seed oils.

85. (currently amended) The herbicide composition as claimed in claim 3, wherein at least one additional component is present and is selected from the group consisting of
- Methylated C6-C19 fatty acids,
  - Methylated Tall oil fatty acids,
  - Methylated Oleic acid,
  - Methylated Linoleic acid,
  - Methylated Linolenic acid,
  - Methylated Stearic acid,
  - Methylated Palmitic acid,

408430

Application No.: 09/916611

Docket No.: 00306-00142-USU

Ethylated C6-C19 fatty acids,  
Ethylated Tall oil fatty acids,  
Ethylated Oleic acid,  
Ethylated Linoleic acid,  
Ethylated Linolenic acid,  
Ethylated Stearic acid,  
Ethylated Palmitic acid,  
Butylated C6-C19 fatty acids,  
Butylated Tall oil fatty acids,  
Butylated Oleic acid,  
Butylated Linoleic acid  
Butylated Linolenic acid,  
Butylated Stearic acid,  
Butylated Palmitic acid,  
Methylated soybean oil,  
Ethylated soybean oil,  
Butylated soybean oil,  
Methylated canola oil,  
Ethylated canola oil,  
Butylated canola oil,  
Methylated coconut oil,  
Ethylated coconut oil,  
Butylated coconut oil,  
Methylated sunflower oil,

408430

Application No.: 09/916611

Docket No.: 00306-00142-USU

Ethylated sunflower oil,  
Butylated sunflower oil,  
Paraffinic mineral oils,  
Naphthenic mineral oils,  
Aromatic mineral oils,  
Soybean oil,  
Canola oil,  
Cottonseed oil,  
C6-C19 fatty acids,  
Tall oil fatty acids,  
Oleic acid,  
Linoleic acid,  
Linolenic acid,  
Stearic acid,  
Palmitic acid and  
Epoxified soybean oil.

86. (currently amended) The herbicide composition as claimed in claim 1, wherein the at least one surfactant is selected from the group consisting of
- Alcohol alkoxylate,  
Alcohol alkoxylate sulfate,  
Alkylphenol alkoxylate,  
Alkanolamide,  
Alkylaryl sulfonate,

408430



Application No.: 09/916611

Docket No.: 00306-00142-USU

Amine oxide,  
Amine,  
Betaines,  
Block polymers of ethylene and propylene glycol,  
Carboxylated alcohol or alkylphenol alkoxylate,  
Diol,  
Diphenyl sulfonates,  
Ether,  
Ethoxylated amine,  
Ethoxylated fatty acid,  
Ethoxylated fatty ester and oils,  
Ethylene carbonate,  
Fatty ester,  
Glycerol ester,  
Glycol,  
Phosphate ester surfactant,  
Propylene Carbonate,  
Sarcosines,  
Silicone-based surfactant,  
Sorbitans,  
Sucroses,  
Glucoses,  
Sulfate of alkoxylated alkylphenol ,  
sulfonate of alkoxylated alkylphenol,

408430

Application No.: 09/916611

Docket No.: 00306-00142-USU

Sulfate of alcohol and

Tristyrylphenol Alkoxylate.

87. (currently amended) The herbicide composition as claimed in claim 1, wherein the at

least one surfactant is selected from the group consisting of

- A) Alcohol alkoxylates based on branched and linear alcohols containing ethylene oxide or propylene oxide
- B) Alcohol alkoxylate sulfates,
- C) Nonylphenol alkoxylate containing ethylene oxide,
- D) Nonylphenol alkoxylate containing propylene oxide,
- E) Octylphenols alkoxylate containing ethylene oxide
- F) Octylphenols alkoxylate containing propylene oxide,
- G) Fatty amine alkoxylates,
- H) Butanediols,
- I) Butyl cellulose ether,
- J) Butyl carbitol,
- K) Propylene glycol,
- L) Ethylene glycol,
- M) Dipropylene glycol,
- N) Diethylene glycol,
- O) Phosphate esters of alcohol alkoxylates,
- P) Phosphate esters of alkylphenol alkoxylates,
- Q) Sorbitan esters,

Application No.: 09/916611

Docket No.: 00306-00142-USU

R) Alkoxyated sorbitan esters and

S) Alkylpolyglucosides,

88. (currently amended) The herbicide composition as claimed in claim 3, wherein the at

least one surfactant is selected from the group consisting of

Alcohol alkoxylate,

Alcohol alkoxylate sulfate,

Alkylphenol alkoxylate,

Alkanolamide,

Alkylaryl sulfonate,

Amine oxide,

Amine,

Betaines,

Block polymers of ethylene and propylene glycol,

Carboxylated alcohol or alkylphenol alkoxylate,

Diol,

Diphenyl sulfonates derivative,

Ether,

Ethoxylated amine,

Ethoxylated fatty acid,

Ethoxylated fatty ester and oils,

Ethylene carbonate,

Fatty ester,

Glycerol ester,

408430

Application No.: 09/916611

Docket No.: 00306-00142-USU

Glycol,  
Phosphate ester surfactant,  
Propylene Carbonate,  
Sarcosines,  
Silicone-based surfactant,  
Sorbitans,  
Sucroses,  
Glucoses,  
Sulfate of alkoxylated alkylphenol ,  
sulfonate of alkoxylated alkylphenol,  
Sulfate of alcohol and  
Tristyrylphenol Alkoxylate.

89. (currently amended) The herbicide composition as claimed in claim 3, wherein the at

least one surfactant is selected from the group consisting of

- A) Alcohol alkoxylates based on branched and linear alcohols containing ethylene oxide or propylene oxide
- B) Alcohol alkoxylate sulfates,
- C) Nonylphenol alkoxylate containing ethylene oxide,
- D) Nonylphenol alkoxylate containing propylene oxide,
- E) Octylphenols alkoxylate containing ethylene oxide
- F) Octylphenols alkoxylate containing propylene oxide,
- G) Fatty amine alkoxylates,
- H) Butanediols,

408430

Application No.: 09/916611

Docket No.: 00306-00142-USU

- I) Butyl cellulose ether,
- J) Butyl carbitol,
- K) Propylene glycol,
- L) Ethylene glycol,
- M) Dipropylene glycol,
- N) Diethylene glycol,
- O) Phosphate esters of alcohol alkoxylates,
- P) Phosphate esters of alkylphenol alkoxylates,
- Q) Sorbitan esters,
- R) Alkoxylated sorbitan esters and
- S) Alkylpolyglucosides.

90. (currently amended) The herbicide composition as claimed in claim 68, wherein the at

least one surfactant is selected from the group consisting of

Alcohol alkoxylate,

Alcohol alkoxylate sulfate,

Alkylphenol alkoxylate,

Alkanolamide,

Alkylaryl sulfonate,

Amine oxide,

Amine,

Betaines,

Block polymers of ethylene and propylene glycol,

Carboxylated alcohol or alkylphenol alkoxylate,

408430

Application No.: 09/916611

Docket No.: 00306-00142-USU

Diol,  
Diphenyl sulfonates,  
Ether,  
Ethoxylated amine,  
Ethoxylated fatty acid,  
Ethoxylated fatty ester and oils,  
Ethylene carbonate,  
Fatty ester,  
Glycerol ester,  
Glycol,  
Phosphate ester surfactant,  
Propylene Carbonate,  
Sarcosines,  
Silicone-based surfactant,  
Sorbitans,  
Sucroses,  
Glucoses,  
Sulfate of alkoxylated alkylphenol ,  
sulfonate of alkoxylated alkylphenol,  
Sulfate of alcohol and  
Tristyrylphenol Alkoxylate.

91. (currently amended) The herbicide composition as claimed in claim 71, wherein the at least one surfactant is selected from the group consisting of

408430

Application No.: 09/916611

Docket No.: 00306-00142-USU

- A) Alcohol alkoxylates based on branched and linear alcohols containing ethylene oxide or propylene oxide
- B) Alcohol alkoxylate sulfates,
- C) Nonylphenol alkoxylate containing ethylene oxide,
- D) Nonylphenol alkoxylate containing propylene oxide,
- E) Octylphenols alkoxylate containing ethylene oxide
- F) Octylphenols alkoxylate containing propylene oxide,
- G) Fatty amine alkoxylates,
- H) Butanediols,
- I) Butyl cellulose ether,
- J) Butyl carbitol,
- K) Propylene glycol,
- L) Ethylene glycol,
- M) Dipropylene glycol,
- N) Diethylene glycol,
- O) Phosphate esters of alcohol alkoxylates,
- P) Phosphate esters of alkylphenol alkoxylates,
- Q) Sorbitan esters,
- R) Alkoxylated sorbitan esters and
- S) Alkylpolyglucosides.

92. (New) The herbicide composition as claimed in claim 1, wherein said chlorinated carboxylic acid herbicide is a synthetic auxin or a quinoline carboxylic acid.

Application No.: 09/916611

Docket No.: 00306-00142-USU

93. (New) A herbicide composition comprising at least one chlorinated carboxylic acid herbicide in the acid form and at least one surfactant in an effective amount such that said chlorinated carboxylic acid herbicide is fully dissolved in the surfactant and said at least one surfactant is present in a quantity equal to or greater than said at least one chlorinated carboxylic acid herbicide.
94. (New) A herbicide composition comprising at least one fully solubolized chlorinated carboxylic acid herbicide in the acid form and at least one surfactant, wherein said surfactant fully solubolizes the carboxylic acid herbicide.
95. (New) The herbicide composition as claimed in claim 94, wherein said at least one surfactant is present in an amount of at least about 8 weight %.